

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.**

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently Amended) A method for supplementing a flow of blood to a portion of the cardiovascular system of a patient, the method comprising:

[[(a)]] inserting a catheter device into the vasculature of the patient and advancing the catheter device to a first location within a first coronary vessel within the cardiovascular system; and

~~(b) guiding the catheter device through an interstitial passageway formed between the first location and a second location within a second coronary vessel within the cardiovascular system; the second location within the second coronary vessel being distal to an obstruction in the second coronary vessel; and~~

[[(c)]] forming a blood flow path from a heart chamber directly to the ~~second~~ first coronary vessel via a septal passageway extending into the heart wall between the heart chamber and the first coronary vessel; and ~~(d) occluding the interstitial passageway between the first coronary vessel and the second coronary vessel to prevent blood flow through the interstitial passageway.~~

2. (Currently Amended) The method according to claim 1, wherein forming a blood flow path from the heart chamber directly to the ~~second~~ first coronary vessel includes placing a conduit in a heart wall between the heart chamber and the ~~second~~ first coronary vessel.

FINNEGAN
HENDERSON
FARABOW
GARRETT &
DUNNER ^{LLP}

1300 I Street, NW
Washington, DC 20005
202.408.4000
Fax 202.408.4400
www.finnegan.com

3. (Currently Amended) The method according to claim 2, wherein placing a conduit in a heart wall between the heart chamber and the ~~second~~ first coronary vessel includes placing a conduit in ~~[[a]] the septal passageway extending into the heart wall between the heart chamber and the second coronary vessel.~~

4. (Currently Amended) The method according to claim ~~[[1]]~~ 26, wherein the interstitial passageway is formed through a wall of the first coronary vessel and through a wall of the second coronary vessel between the first and second locations.

5. (Currently Amended) The method according to claim ~~[[4]]~~ 27, wherein occluding the interstitial passageway includes deploying an embolization substance at ~~[[the]]~~ a wall of the first vessel and at ~~[[the]]~~ a wall of the second vessel.

6. (Currently Amended) The method according to claim ~~[[1]]~~ 27, wherein occluding the interstitial passageway includes deploying an embolization device within the interstitial passageway.

7. (Currently Amended) The method according to claim 1, wherein the first ~~second~~ coronary vessel is a coronary artery.

8. (Original) The method according to claim 7, wherein the coronary artery is a left anterior descending coronary artery.

FINNEGAN
HENDERSON
FARABOW
GARRETT &
DUNNER LLP

1300 I Street, NW
Washington, DC 20005
202.408.4000
Fax 202.408.4400
www.finnegan.com

9. (Currently Amended) The method according to claim ~~[[7]]~~ 26, wherein the first second coronary vessel is a coronary vein proximate to the coronary artery.

10. (Currently Amended) The method according to claim 9, wherein the ~~first~~ second coronary vessel is a great cardiac vein.

11.-13. (Canceled)

14. (Currently Amended) The method according to claim ~~[[11]]~~ 28, wherein:
~~[[a)]]~~ the first interstitial passageway is formed through a wall of the first coronary vessel and through a wall of the second coronary vessel between the first and second locations; and

~~[[b)]]~~ the second interstitial passageway is formed through a wall of the second coronary vessel and through a wall of the first coronary vessel between the third and fourth locations.

15. (Currently Amended) The method according to claim ~~[[14]]~~ 29, wherein occluding the first and second interstitial passageways includes:

~~[[a)]]~~ deploying an embolization substance at ~~[[the]]~~ a wall of the first coronary vessel and at ~~[[the]]~~ a wall of the second coronary vessel at the first interstitial passageway; and

~~[[b)]]~~ deploying an embolization substance at ~~[[the]]~~ a wall of the first coronary vessel and at ~~[[the]]~~ a wall of the second coronary vessel at the second interstitial

passageway.

16. (Currently Amended) The method according to claim [[11]] 29, wherein occluding the first and second interstitial passageways includes deploying an embolization device within each of the first and second passageways.

17. (Currently Amended) The method according to claim [[11]] 28, wherein the first coronary vessel is a coronary artery.

18. (Original) The method according to claim 17, wherein the coronary artery is a left anterior descending coronary artery.

19. (Original) The method according to claim 17, wherein the second coronary vessel is a coronary vein proximate to the coronary artery.

20. (Original) The method according to claim 19, wherein the first coronary vessel is a great cardiac vein.

21. (Canceled)

22. (Currently Amended) The method according to claim [[21]] 24 further comprising distending the obstruction within the coronary vessel.

23. (Original) The method according to claim 22, wherein distending the obstruction within the coronary vessel includes inflating a balloon at the obstruction within the coronary vessel.

24. (Currently Amended) ~~[[The]]~~ A method according to claim 21, for supplementing a flow of blood to a portion of the cardiovascular system of a patient, the method comprising:

(a) inserting a catheter device into the vasculature of the patient and advancing the catheter device to a first location within a coronary vessel within the cardiovascular system, the first location being proximate to an obstruction within the coronary vessel;

(b) advancing the catheter device through the obstruction to a second position distal to the obstruction;

(c) guiding the catheter device through an interstitial passageway extending into a heart wall between a heart chamber and the coronary vessel; and

(d) placing a conduit in the interstitial passageway extending into the heart wall between the heart chamber and the coronary vessel,

wherein the interstitial passageway includes a septal passageway extending into the heart wall between the heart chamber and the coronary vessel.

25. (Currently Amended) The method according to claim ~~[[21]]~~ 24, wherein the coronary vessel is a coronary artery.

26. (New) The method according to claim 1, further comprising

FINNEGAN
HENDERSON
FARABOW
GARRETT &
DUNNER ^{LLP}

1300 I Street, NW
Washington, DC 20005
202.408.4000
Fax 202.408.4400
www.finnegan.com

advancing the catheter device to a second location within a second coronary vessel within the cardiovascular system; and

guiding the catheter device through an interstitial passageway formed between the first location and the second location,

wherein the first location within the first coronary vessel is distal to an obstruction in the first coronary vessel.

27. (New) The method according to claim 26, further comprising occluding the interstitial passageway between the first coronary vessel and the second coronary vessel to prevent blood flow through the interstitial passageway.

28. (New) The method according to claim 1, further comprising guiding the catheter device through a first interstitial passageway formed between the first location and a second location within a second coronary vessel within the cardiovascular system;

advancing the catheter device to a third location within the second coronary vessel; and

guiding the catheter device through a second interstitial passageway formed between the third location and a fourth location within the first coronary vessel, the fourth location being distal to an obstruction in the first coronary vessel.

29. (New) The method according to claim 28, further comprising occluding the first and second interstitial passageways between the first coronary vessel and the

FINNEGAN
HENDERSON
FARABOW
GARRETT &
DUNNER LLP

1300 I Street, NW
Washington, DC 20005
202.408.4000
Fax 202.408.4400
www.finnegan.com

second coronary vessel to prevent blood flow through either of the first or second passageways.

FINNEGAN
HENDERSON
FARABOW
GARRETT &
DUNNER LLP

1300 I Street, NW
Washington, DC 20005
202.408.4000
Fax 202.408.4400
www.finnegan.com